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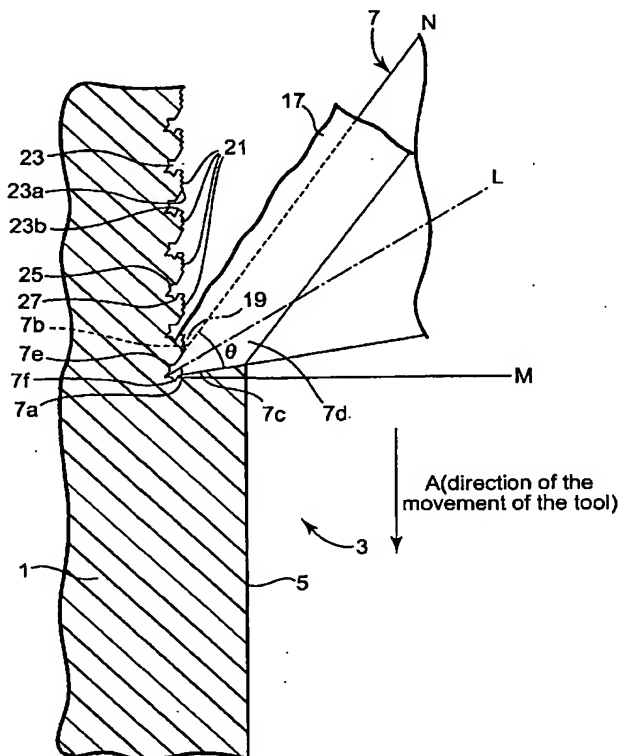
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(54) Title: CUTTING TOOLS AND ROUGHENED ARTICLES USING SURFACE ROUGHENING METHODS



(57) Abstract: The disclosure relates to surface rough-
ening methods in which a cutting tool having a radial
cutting blade with first and second cutting edges is fed
along a longitudinal axis of an article while rotating the
cutting tool about the axis. The first cutting edge forms a
first machined pattern of peaks (19) and valleys (23) on
a surface of the article, and the second cutting edge re-
moves at least a portion of the peaks to form roughened
fracture surfaces in a second machined pattern defining
an arrangement of grooves, corresponding to the valleys,
separated by lands, corresponding to the roughened frac-
ture surfaces. The first (23a) and second (23b) walls may
include concave regions (25) within the grooves. The
disclosure also provides cutting tools useful in practic-
ing the methods, and cylindrical articles having interior
or exterior surfaces roughened using the methods. The
methods may have applications to fabrication of cylin-
der blocks for internal combustion engines.



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